



**NASA Environmental Compatibility Research Workshop II**  
**Cleveland, Ohio**  
**May 19 – 21**

April 17, 1998

Dear Colleague:

You are cordially invited to participate in the second in the series of Workshops on NASA's Environmental Compatibility Research, to be held May 19 – 21 in Cleveland, Ohio.

This workshop will seek to:

- Address scenarios for aviation growth and the associated environmental impacts;
- Analyze the gap between these forecasts and the goals of current NASA programs; and
- Discuss potential research activities and other approaches in addressing these gaps.

Participants will again be divided into two tracks, Noise or Emissions, for the continuing discussions. See the attached agenda for details.

If you did not have the opportunity to attend the initial workshop held in Atlanta, Georgia, and would like additional information on the proceedings, please contact:

Adina C. Cherry  
(703) 414-7039  
[adina.c.cherry@cpmx.saic.com](mailto:adina.c.cherry@cpmx.saic.com)

Workshop II will be held at the Embassy Suites Cleveland Downtown in Cleveland, Ohio. For reservations, please contact the hotel directly at (216) 523-8000 by May 1, 1998, in order to guarantee the conference rate of \$119.00/night. To obtain the preferred rate, please indicate to the reservation agent that you will be attending the NASA Environmental Workshops.

Please indicate your interest in attending this workshop by responding via email. In addition, please indicate your interest in touring NASA's Lewis Research Center during the afternoon of May 21 (Thursday). Responses should be directed to Ms. Cherry via email, at the above address.

A response by April 30, 1998 is appreciated.

Sincerely,

Richard S. Christiansen  
Acting Associate Administrator  
for Aeronautics & Space Transportation Technology

# NASA ENVIRONMENTAL COMPATIBILITY RESEARCH WORKSHOP II

## Preliminary Agenda

**Tuesday, May 19**

7:15 a.m.	Breakfast for the participants will be provided in the Embassy Suite's Atrium Café'	
8:00 a.m.	Welcome and introductions: Comments on Workshop I	H. Wesoky
8:15 a.m.	Housekeeping and administration	F. Murray
	Website, action items, etc.	A. Cherry
	Agenda for Workshop II	F. Murray
8:30 a.m.	EPA Study of Airport Local Air Quality	B. Manning (EPA)
	Comments and discussion:	S. Gander (CCAP) S. Morford (P&W) or Will Dodds (GE) or
9:30 a.m.	CNS/ATM Enhancements to Reduce Aircraft Emissions	F. Melone or Diana Liang (FAA)
	Comments and discussion:	H. Aylesworth (AIA) TBD
10:15 a.m.	Break	
10:30 a.m.	Where do we go from Kyoto?: Aviation and Global Climate Change	P. Stolpman (EPA), Chair
House)		S. Seidel (White M. Wascom (ATA) A. Petsonk (EDF)
11:30 a.m.	Noise:	
	Certification and Future ICAO Work Program	T. Connor (FAA)
	Worldwide Impacts	B. Sharp (Wyle)

	Comments and discussion:	R. Linn (DFW) B. Kane (NOISE)
12:45 p.m.	Lunch	
2:00 p.m.	Coordination with FAA “Environmental Research Beyond 2000”	J. Littleton (FAA) R. Golaszewski (GRA)
3:00 p.m.	Scenarios for Aviation’s Growth: Opportunities for Advanced Technology	
	Noise	T. Marien (NASA)
3:30 p.m.	Break	
3:45 p.m.	Scenarios for Aviation’s Growth: Opportunities for Advanced Technology (cont.)	
	Emissions	M. Guynn (NASA)
	Zero Emissions Aircraft	Chris Snyder (NASA)
4:45 p.m.	Adjourn	

### **Wednesday, May 20**

7:15 a.m.	Breakfast for the participants will be provided in the Embassy Suite’s Atrium Café’	
8:00 a.m.	Gap analysis and Roadmaps: Proposed Research Objectives and Activities	
	Emissions	J. Rohde (NASA)
	Noise	D. Stephens (NASA)
9:00 a.m.	Organization and assignments for breakout sessions	F. Murray
9:15 a.m.	Breakout sessions: Emission	C. Russo (NASA) Discussant Facilitator - TBD
	Noise	D. Dwoyer (NASA) Discussant Facilitator - TBD

Review:

- Scenarios: Plausibility? Aggressive enough? Etc.
- Gap analysis: Appropriate goals/metrics? Benefits? Recognition of “user needs?” Recognition of “market measures?” Etc.
- Roadmaps: Opportunity for “invention?” Process to encourage “revolutionary concepts?” Realistic schedule? Deliverables? Customer review? Etc.

Noon

Lunch

1:00 p.m.

Suggestions for modification:

- Scenarios
- Gap analysis: Goals, technology challenges
- Roadmaps: Processes, activities

3:00 p.m.

Break

3:15 p.m.

Exchange Emissions and Noise Roadmaps

4:00 p.m.

Finalize Emissions and Noise “Straw” Roadmaps and prepare plenary report

5:00 p.m.

Adjourn

**Thursday, May 21**

7:15 a.m.

Breakfast for the participants will be provided in the Embassy Suite’s Atrium Café’

8:00 a.m.

Emissions report and discussion

C. Russo (NASA) et al.

9:15 a.m.  
al.

Noise report and discussion

D. Dwoyer (NASA) et

10:30 a.m.

Break

10:45 a.m.

Impressions

C, Newberg (EPA)  
D. Sutkus (Boeing)

11:15 a.m.

The way forward

F. Murray  
H. Wesoky (NASA)

Noon

Adjourn workshop

1:00 p.m.  
Team

Executive session

NASA ECoA Core

FAA/GRA  
SAIC Team

3:00 p.m.

Adjourn